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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,689	04/17/2006	Shu Zhang	CN 020036	8969
NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131			EXAMINER	
			KHAN, MEHMOOD B	
			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			04/18/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)		
	10/540,689	ZHANG, SHU		
Office Action Summary	Examiner	Art Unit		
	MEHMOOD B. KHAN	2617		
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address		
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ATION. Oly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 12 This action is FINAL . 2b) ☑ T Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal matte	-		
Disposition of Claims				
4) Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,4,6,7,8,9,11,13,14,15,16,18,20 7) Claim(s) 3,5,10,12,17 and 19 is/are objecte 8) Claim(s) are subject to restriction and Application Papers 9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) applicant may not request that any objection to the specificant may not request the sp	drawn from consideration. 0,21,22,23,24 is/are rejected. d to. d/or election requirement. iner. accepted or b) □ objected to b			
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	rection is required if the drawing(s	s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)	immary (PTO-413) /Mail Date ormal Patent Application -·		

DETAILED ACTION

Claim Objections

- 1. Claims 2 and 10 are objected to because of the following informalities:
- 2. Claim 2 is objected to because it contains the term "lease" which should be changed to -- least --.

Allowable Subject Matter

- 1. Claims 3, 5, 10, 12, 17, 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 2. The following is a statement of reasons for the indication of allowable subject matter: Consider claims 3 and 5, none of the cited prior arts during examination disclose the limitation of calculating the transmit power according to the disclosed formula.
- 3. The following is a statement of reasons for the indication of allowable subject matter: Consider claims 10 and 12, none of the cited prior arts during examination disclose the limitation of calculating the transmit power according to the disclosed formula.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

 Consider claims 17 and 19, none of the cited prior arts during examination disclose the

 limitation of calculating the transmit power according to the disclosed formula.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1, 8, 15 and 22 rejected under 35 U.S.C. 102(e) as being anticipated by Nelson et al. (US 20030060224 herein Nelson).

Claim 1, Nelson discloses a method for controlling a mobile terminal's transmit power in CDMA-TDD system (Abstract, 0013, 0048), Nelson discloses (a) receiving a power control message from a base-station transmitted via a downlink (0047, where Nelson discloses a maintenance channel); Nelson discloses (b) acquiring a channel gain value between said mobile terminal and said base-station according to information transmitted via the downlink (Fig. 9: 930, where Nelson discloses computing path loss); Nelson discloses (c) calculating a value of the transmit power of said mobile terminal according to said power control message, said channel gain value and a set processing gain value (Fig. 9: 950, where Nelson discloses transmit power, it is well known in the art that the processing gain is the ratio of the spread bandwidth to un-spread bandwidth of the signal); Nelson discloses (d) adjusting the transmit power of said mobile terminal according to said value of the transmit power (Fig. 9: 975, where Nelson disclose increasing power), Nelson discloses wherein said adjusting the transmit power of said mobile terminal is synchronized with those of other terminals assigned within a same time slot (Abstract, 0051, 0052, where Nelson discloses adjusted power based on synchronization signal).

Claim 8, Nelson discloses a device for controlling a mobile terminal's transmit power in CDMA-TDD system (Abstract, 0013, 0048), comprising: a receiving module, receiving a power control message from a base-station transmitted via a downlink (0038, 0047, where Nelson

discloses processors, a maintenance channel); Nelson discloses a channel gain calculating module, acquiring a channel gain value between said mobile terminal and said base-station according to information transmitted via the downlink (0038, Fig. 9: 930, where Nelson discloses processors and computing path loss); Nelson discloses and a transmit power calculating and setting module, calculating a value of the transmit power of said mobile terminal according to said power control message, said channel gain value and a set processing gain value (0038, Fig. 9: 950, where Nelson discloses processors, transmit power, it is well known in the art that the processing gain is the ratio of the spread bandwidth to un-spread bandwidth of the signal), Nelson discloses adjusting the transmit power of said mobile terminal according to said value of the calculated transmit power (Fig. 9: 975, where Nelson disclose increasing power), Nelson discloses wherein said adjusting the transmit power of said mobile terminal is synchronized with those of other terminals assigned within a same time slot (Abstract, 0051, 0052, where Nelson discloses adjusted power based on synchronization signal).

Claim 15, Nelson discloses a mobile terminal in CDMA-TDD system (Abstract, 0013, 0048), Nelson discloses a receiving means, receiving and processing wireless signals from a downlink (0038, 0047, where Nelson discloses processors, a maintenance channel); Nelson discloses a transmitting means, transmitting wireless signals via a uplink (0038, Abstract where Nelson discloses a processor, reply in the reverse link); Nelson discloses a transmit power control means, receiving a power control message transmitted via the downlink (0038, 0047, where Nelson discloses processors, a maintenance channel); Nelson discloses after acquiring a channel gain value between said mobile terminal and a base-station, calculating a value of the transmit power of said mobile terminal according to said power control message,

said channel gain value and a set processing gain value (Fig. 9: 910-950, where Nelson discloses calculating the transmit power value, it is well known in the art that the processing gain is the ratio of the spread bandwidth to un-spread bandwidth of the signal), Nelson discloses adjusting the transmit power of said mobile terminal according to said value of the transmit power (Fig. 9: 975, where Nelson disclose increasing power), Nelson discloses wherein said adjusting the transmit power of said mobile terminal is synchronized with those of other terminals assigned within a same time slot (Abstract, 0051, 0052, where Nelson discloses adjusted power based on synchronization signal).

Claim 22, Nelson discloses a method for power control in a base station (Abstract), Nelson discloses transmitting a power control message via a downlink (0038, 0047, where Nelson discloses processors, a maintenance channel); Nelson discloses transmitting information via the downlink, wherein said information is related to a transmit power used when the base station transmits signals (0047, where Nelson discloses power control information); Nelson discloses simultaneously receiving power information transmitted by each mobile terminal assigned in a same time slot (0045, 0051, where Nelson discloses power control message and transmission in same time slot).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2617

8. Claims 2, 4, 6, 7, 9, 11, 13, 14, 16, 18, 20, 21, 23 and 24rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson et al. (US 20030060224 herein Nelson) in view of Chen et al. (US 20030134655 herein Chen).

Claim 2, Nelson does not disclose wherein said power control message at lease includes items of background noise, inter-cell interference power level and target signal-to-interference ratio which have changed.

In an analogous art, Nelson discloses wherein said power control message at lease [sic] includes items of background noise, inter-cell interference power level and target signal-to-interference ratio which have changed (0081, where Nelson discloses updated quality metrics). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Nelson with the teachings of Chen so as to allow for rapid power adjustment (0012).

Claim 4, as analyzed with respect to the limitations as discussed in claim 2.

Claim 6, Nelson does not disclose wherein when said power control message changes, the mobile terminal receives said power control message broadcast via the downlink.

In an analogous art, Chen discloses when said power control message changes, the mobile terminal receives said power control message broadcast via the downlink (0070). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Nelson with the teachings of Chen so as to allow for rapid power adjustment (0012).

Claim 7, as analyzed with respect to the limitations as discussed in claim 6.

Claim 9, as analyzed with respect to the limitations as discussed in claim 2.

Claim 11, as analyzed with respect to the limitations as discussed in claim 4.

Claim 13, as analyzed with respect to the limitations as discussed in claim 6.

Claim 14, as analyzed with respect to the limitations as discussed in claim 6.

Claim 16, as analyzed with respect to the limitations as discussed in claim 2.

Claim 18, as analyzed with respect to the limitations as discussed in claim 4.

Claim 20, as analyzed with respect to the limitations as discussed in claim 6.

Claim 21, as analyzed with respect to the limitations as discussed in claim 6.

Claim 23, as analyzed with respect to the limitations as discussed in claim 2.

Claim 24, as analyzed with respect to the limitations as discussed in claim 6.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MEHMOOD B. KHAN whose telephone number is (571)272-9277.

The examiner can normally be reached on Monday - Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lester Kincaid can be reached on 571-272-7922. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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/M. B. K./

/Lester Kincaid/

Supervisory Patent Examiner, Art Unit 2617